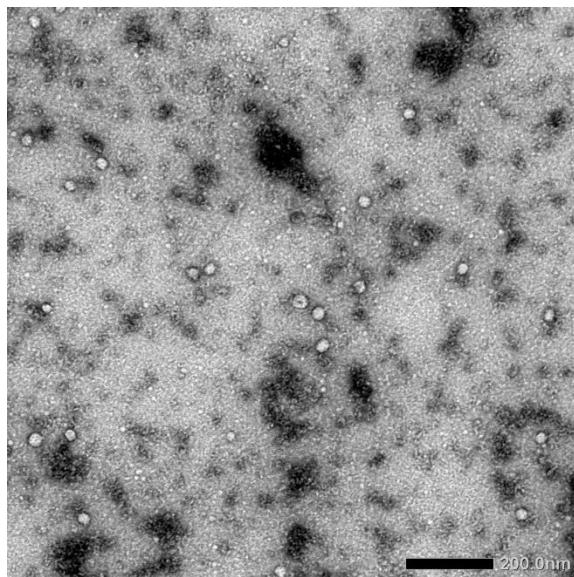
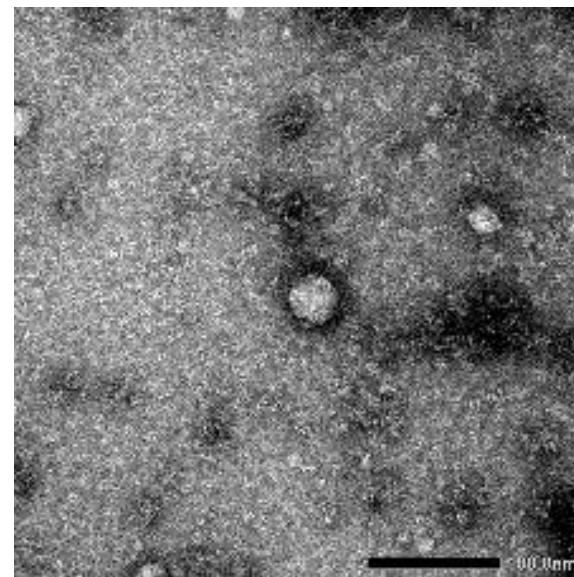
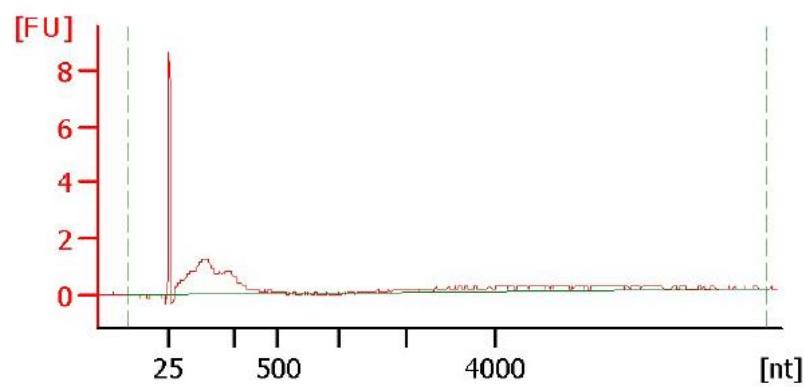


**a****b****c**

Supplementary fig. 1

## Selection of colorectal cancer associated exosomal microRNAs

### Serum exosomal miRNAs expression array

A case with recurrence: 4 samples

A case with no recurrence: 2 samples

miR array (TORAY 3D-GENE Human Oligo Chip)

liver metastasis associated microRNAs  
(miR-19a, miR-19b, miR-23a,  
miR-92a, miR-320a, miR-4437)

### combined analysis on aCGH and miR microarray in colorectal cancer tissue

4 colorectal cancer  
2 normal mucosa

miR array

124 colorectal cancer

array CGH

miR-17-92 cluster  
(miR-17, miR-18a, miR-19a  
miR-19b, miR-20a, miR-92a)

miR25-106b, miR-17-92a cluster

### Validation 1: serum exosomal miR-17-92 cluster expression assessed by qRT-PCR

Purification: Total Exosome Isolation Kit (from serum)

90 colorectal cancer (Stage I 24, II 18, III 24, IV 24)

12 healthy control

Serum exosomal miR-19a

### Validation 2: serum exosomal miR-19a expression assessed by qRT-PCR

Purification: Ultracentrifuge method

209 colorectal cancer (Stage I 48, II 59 , III 57, IV 45)

16 healthy control